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ROCHE BIOSCIENCE PAT

CLAIM LISTING

(Currently Amended) A compound-of the formula Formula (1): 1.

$$G^1 \longrightarrow O \longrightarrow H G^2$$

wherein:

G1 is-a group of formula g

A is selected from the group phenyl, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, and thienyl, all optionally substituted with lower alkyl, halogen, haloalkyl, alkoxy, cyano, nitro, -SO2R', -NSO2R', -SO2NR'R", -NR'R", or -COR'; R' and R" are each independently hydrogen or lower alkyl;

 G^2 is selected from the group represented by the Formula \underline{c} , \underline{d} , \underline{e} , and \underline{f}

R¹ and R² are independently in each occurrence selected from the group consisting of hydrogen, lower alkyl, halogen, haloalkyl, nitro, -NR'R", -OR', -NR'SO₂R", -SO₂R', -COR', cyano, nitro, phenyl (optionally substituted with halo, alkyl, cyano, nitro, or alkoxy), or heteroaryl (optionally substituted with halo, alkyl, cyano, nitro or alkoxy), said heteroaryl having one to three rings, of four to eight atoms per ring, incorporating within each ring one or two heteroatoms chosen from nitrogen, oxygen or sulfur; and wherein R' and R" are as defined hereinbefore;

R¹ and R², if adjacent, taken together with the carbons to which they are attached may also form an aromatic ring, optionally substituted with one or two substitutents selected from the group consisting of lower alkyl, halo, eyano, or lower alkoxy;

n is an integer selected from 0, 1, 2 and 3; or pharmaceutically acceptable salts or solvates thereof.

- 2. (Original) The compound of Claim 1, wherein G^2 is selected from the group represented by the Formula \underline{c} and \underline{d} .
- 3. (Original) The compound of Claim 1, wherein G^2 is selected from the group represented by the Formula \underline{e} and \underline{f} .
- 4. (Canceled)
- 5. (Canceled)
- 6. (Previously Presented) The compound of Claim 2, wherein A is phenyl optionally substituted with lower alkyl, halogen, haloalkyl, alkoxy, cyano, nitro, -SO₂R', -NR'SO₂R'', -SO₂NR'R'', -COR', and -NR'R'', and R' and R'' are each independently hydrogen or lower alkyl.

- (Original) The compound of Claim 6, wherein G2 is a group represented by the 7. Formula c.
- (Original) The compound of Claim 7, wherein R1 is hydrogen, lower alkyl, halo, 8. alkoxy, cyano, SO2R', or COR', and NR'R", and R' and R" are each independently hydrogen or lower alkyl.
- (Original) The compound of Claim 7, wherein R1 is phenyl, which is optionally 9. substituted with halogen, lower alkyl, cyano, nitro or alkoxy.
- (Original) The compound of Claim 7, wherein R1 is pyridinyl, which is optionally 10. substituted with halogen, lower alkyl, cyano, nitro or alkoxy.
- (Original) The compound of Claim 7, wherein R1 is thicnyl, which is optionally 11. substituted with halogen, lower alkyl, cyano, nitro or alkoxy.
- (Original) The compound of Claim 7, wherein R1 and R2, if adjacent, taken 12. together with the carbons to which they are attached form an optionally substituted aromatic ring, which is optionally substituted with halogen, lower alkyl, cyano, nitro or alkoxy.

(Canceled) 13 - 17.

- (Previously Presented) The compound of claim 1, wherein G2 is a group 18. represented by the formula c.
- (Original) The compound of claim 18, wherein A is phenyl optionally substituted 19. with lower alkyl, halogen, haloalkyl, alkoxy, cyano, nitro, -SO2R', -NR'SO2R", --SO₂NR'R", -NR'R", or -COR', R¹ is selected from the group consisting of hydrogen, lower alkyl, halogen, cyano, nitro, -OR', -SO2R', -NR'SO2R", -COR', and -NR'R", and R' and R" are each independently hydrogen or lower alkyl.

20. (Original) The compound of claim 18, wherein Λ is phenyl optionally substituted lower alkyl, halogen, haloalkyl, alkoxy, cyano, nitro, -SO₂R', -NR'SO₂R", -SO₂NR'R", -NR'R", or -COR'; R' and R" are each independently hydrogen or lower alkyl; and R¹ is phenyl optionally substituted with halogen, alkyl, cyano, nitro, or alkoxy.

21 - 28. (Canceled)

- 29. (Previously Presented) The compound of claim 1, wherein the compound is selected from the group consisting of:
 - 4-(5-phenyl-benzofuran-2-ylmethoxycarbonylamino)-bip- henyl-3-carboxylic acid;
 - 4'-fluoro-4-(5-phenyl-benzofuran-2-ylmethoxycarbo- nylamino)-biphenyl-3-carboxylic acid;
 - 4'-fluoro-4-[5-(4-fluoro-phenyl)-benzofuran-2-ylmethoxycarbonylamino]-biphenyl-3-carboxylic acid;
 - 2-(5-phenyl-benzofuran-2-ylmethoxycarbonylamino)-naphthalene-1-carboxylic acid;
 - 2-[5-(4-fluoro-phenyl)-benzofuran-2-ylmethoxycarbonylamino]-5-isopropoxy-benzoic acid;
 - 2-[5-(4-fluoro-phenyl)-benzofuran-2-ylmethoxycarbonyla- mino]-6-methyl-benzoic acid;
 - 2-[5-(4-fluoro-phenyl)-benzofuran-2-ylmethoxy- carbonylamino]-5-pyridin-3-yl-benzoic acid;
 - 5-methanesulfonyl-2-(5-phenyl-benzofuran-2-ylmethoxycarbonylamino)-benzoic acid;
 - 4-[5-(4-fluoro-phenyl)-- benzofuran-2-ylmethoxycarbonylamino]-biphenyl-3-carboxylic acid;
 - 2-(5-phenyl-benzofuran-2-ylmethoxycarbonylamino)-5-thiophen-3-ylbenzoic acid;

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- 5-bromo-2-(5-phenyl-benzofuran-2-ylmethoxycarbonylamino)-benzoic acid;
- [3-(1H-tetrazol-5-yl)-biphenyl-4-yl]-carbamic acid 5-phenyl-benzofuran-2-ylmethyl ester;
- [2-(1H-tetrazol-5-yl)-phenyl]-carbamic acid 5-phenyl-benzofuran-2-ylmethyl ester;
- 2-chloro-6-[5-(4-fluoro-phe-nyl)-benzofuran-2-ylmethoxycarbonylamino]-benzoic acid;
- 2-[5-(4-fluoro-phenyl)-benzofuran-2-ylmethoxycarbonylamino]-naphthalene-1--carboxylic acid;
- 2-[5-(4-fluoro-phenyl)-benzofuran-2-ylmethoxycarbonylami- no]-5-methanesulfonylamino-benzoic acid; and
- [2-(5-phenyl-benzofuran-2-ylmetho- xycarbonylamino)-phenyl]-acetic acid.
- 30. (Original) A pharmaceutical composition comprising a therapeutically effective amount of a compound of Claim 1 in admixture with at last one pharmaceutically acceptable carrier.
- 31. (Previously Presented) A method of treating a subject with a disease state that is alleviated with an IP antagonist, said disease state selected from asthma and disorders of the urinary tract, said method comprising administering to a subject in need thereof, an effective amount of one of more compounds of Claim 1.
- 32. (Canceled)
- 33. (Previously Presented) The method of treatment of claim 31, wherein the disease state comprises bladder disorders associated with bladder outlet obstruction and urinary incontinence conditions.
- 34. (Canceled)

- 35. (Canceled)
- 36. (Previously presented) The method of treatment of claim 31, wherein the disease state comprises asthma.
- 37. (Currently Amended) A process for preparing a compound as claimed in Claim 1, which process comprises:

esterification of the compounds having a general Formula 2 or 3:

wherein R^1 and R^2 are as defined in Claim 1, acylation with phosgene, followed by reaction with a compound of general Formula $\underline{2}$

wherein G¹ is as defined in Claim 1,

and hydrolysis, to provide a compound of the general Formula la or Ib

$$G^{1}$$
 or G^{1} or G^{1} G^{2} G^{1} G^{2} G^{3} G^{4} G^{5} G^{5}

wherein n, G1, R1, and R2 are as defined in Claim 1.

38. (Currently Amended) A process for preparing a compound as claimed in Claim 1, which process comprises:

acylation with phosgene of a compound of general Formula cm or co,

followed by reaction with a compound of general Formula $\underline{2}$

wherein G1 is as defined herein,

and treatment with azide to provide a compound of general Formula $\underline{\mathbf{Ic}}$

wherein n, G1, R1, and R2 are as defined herein.